4 Fibers x 300 Colors = 1200 FiberColors per Area Code 1200 FiberColors x 8.33 GHz /400,000 User Nodes = 25 MHz per User

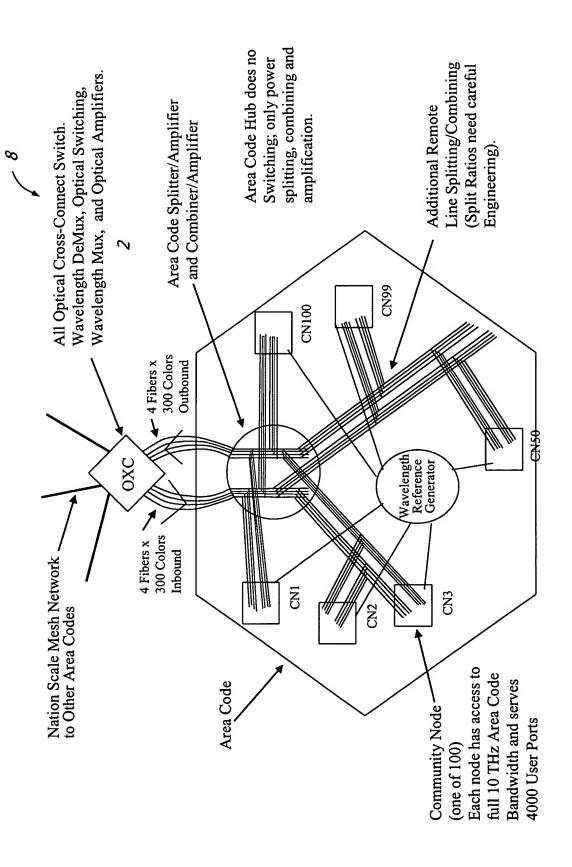


FIG. 2

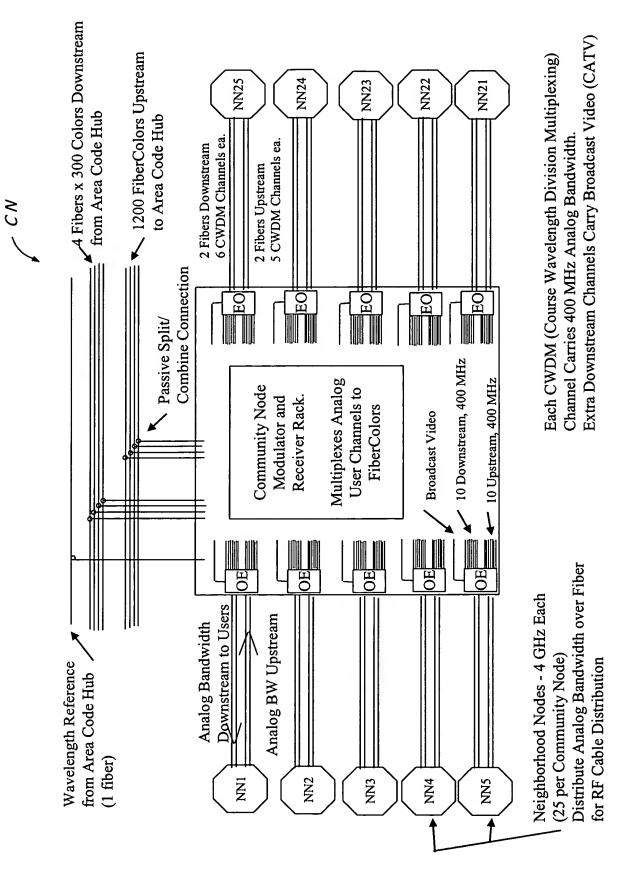
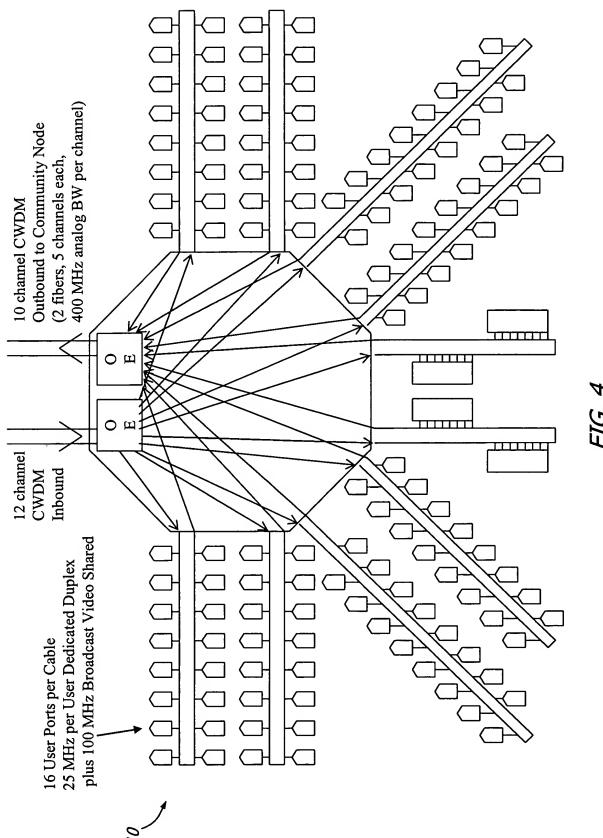


FIG. 3



- Accurate Laser Wavelength Comb Generated at Area Code Node
 - Or Regenerated from Central Network Reference Source
- Standard WDM 50 GHz spacings used, to allow straightforward wavelength demux and mux in network
- More accurate wavelength control (frequency to 500 MHz) used within area code.
- Source wavelengths either from multi-frequency fiber lasers, or from modulated DWDM lasers

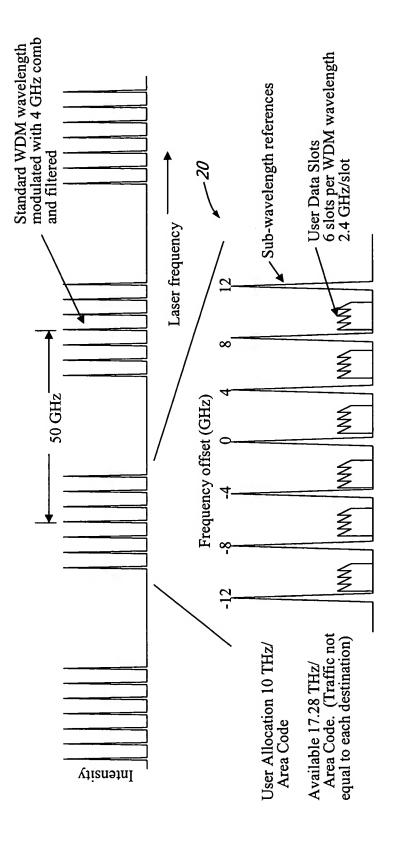


FIG. 5

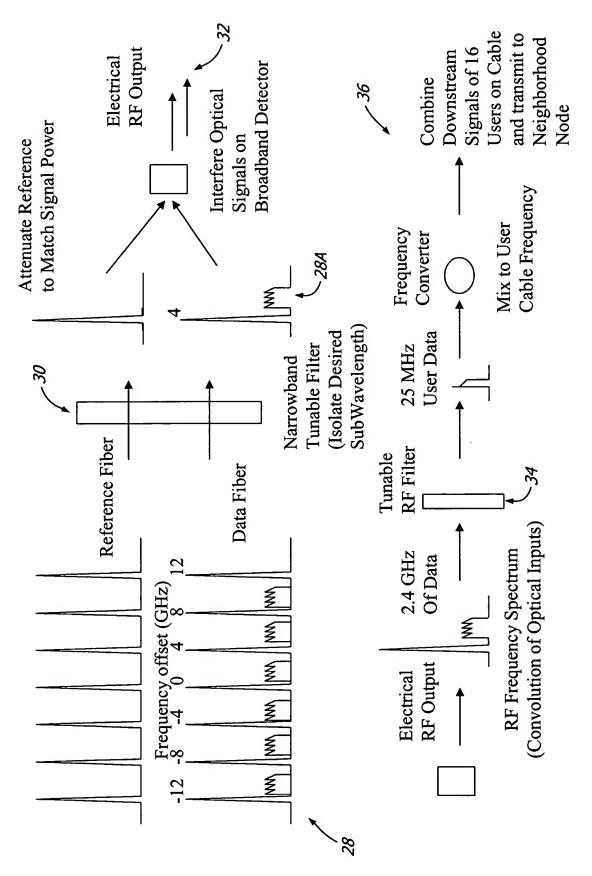


FIG. 6

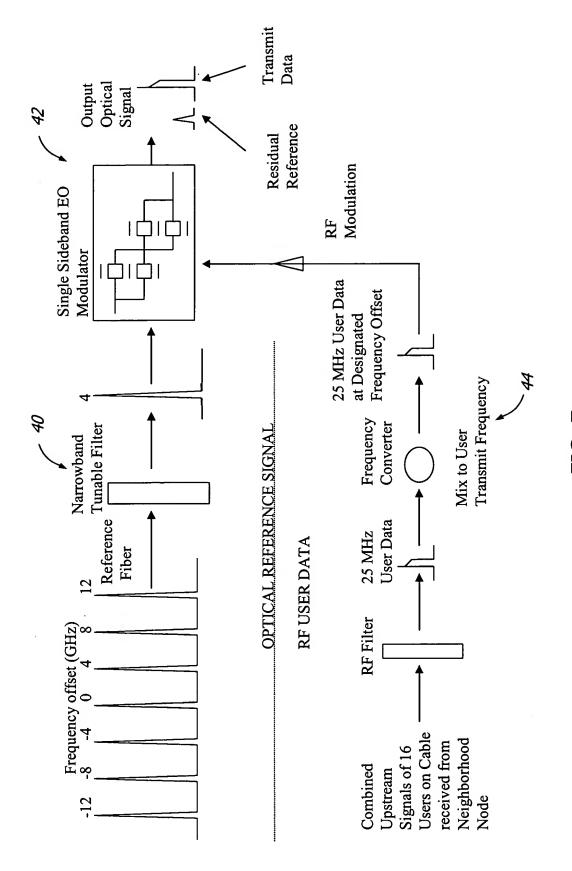
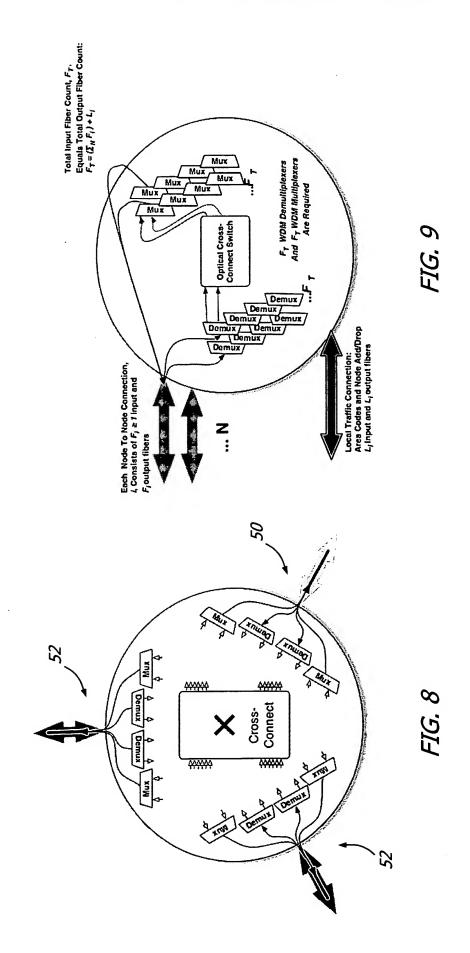


FIG. 7



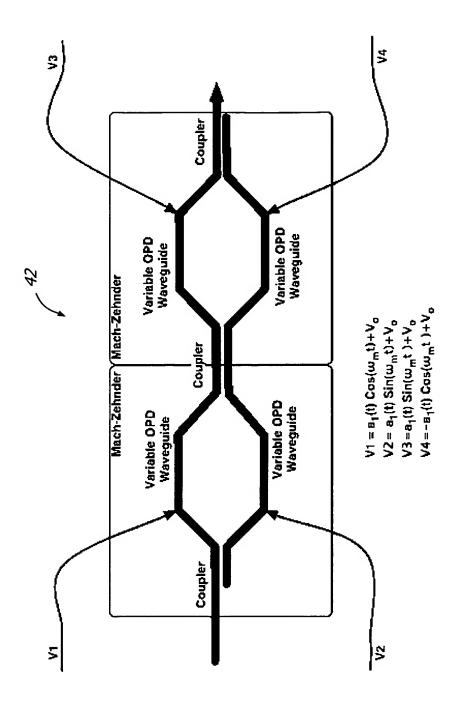
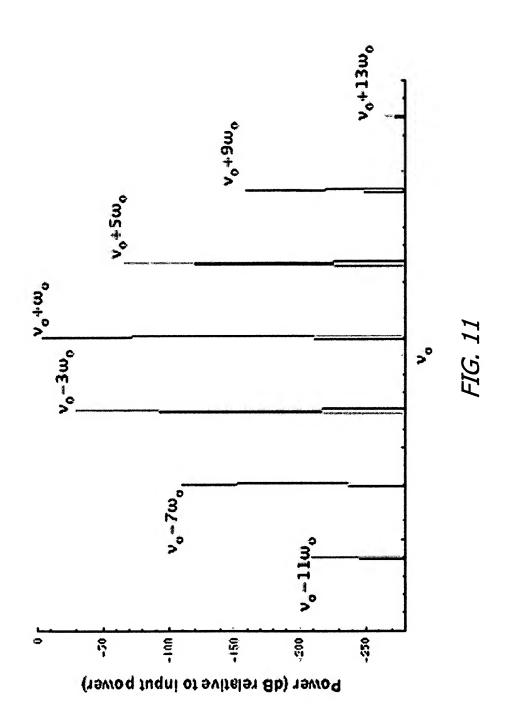


FIG. 10



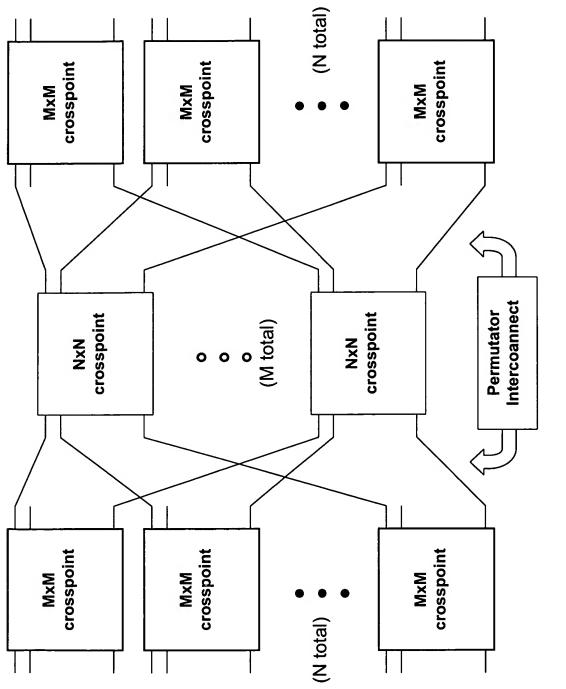


FIG. 12

REPLACEMENT SHEET

